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#### AMENDMENTS TO THE CLAIMS

Please amend the claims to read as follows:

1. (Currently Amended) A method for photochemical treatment of a target site, the method comprising:
  - (a) providing a stream of liquid having a predetermined flow rate and is free-space flowing along at least one portion of its trajectory towards a contact with the target site;
  - (b) providing UV radiation having predetermined parameters in terms of power, wavelength, duty cycle and repetition rate;
  - (c) directing said UV-radiation within said stream of liquid to disinfect the liquid along a trajectory of said stream such that the liquid serves as a flowing liquid wave guide carrying the UV-radiation through the free space flowing portion of the liquid trajectory making use of total internal refection of the UV radiation along said portion;
  - (d) maintaining at least one free space flowing portion of the stream, with the UV radiation locked within in total internal reflection, in contact with said target site for a time period and under conditions sufficient for affecting photochemical disinfection sterilization decontamination or detoxification treatment of the target site.
2. – 3. (Cancelled)
4. (Original) The method of Claim 1, wherein said UV-radiation is generated by a laser source.
5. – 15. (Cancelled)
16. (New) The method of Claim 1, wherein said liquid having a refractive index greater than a refractive index of the surrounding.
17. (New) The method of Claim 1, wherein the UV-radiation being UVA-radiation, UVB-radiation or UVC-radiation.
18. (New) The method of claim 1, wherein the liquid being water or wastewater.